UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO..
10/797,549	03/10/2004	Jai-Ho Lee	678-1187 (P10992)	4413

28249   7590   01/19/2007
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EXAMINER
CONTEE, JOY KIMBERLY

ART UNIT	PAPER NUMBER
2617	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

PTOL-90A (Rev. 10/06)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *10 March 2004*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-6* is/are pending in the application.

　4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-6* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *10 March 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

　a)☒ All   b)☐ Some * c)☐ None of:

　　1.☒ Certified copies of the priority documents have been received.

　　2.☐ Certified copies of the priority documents have been received in Application No. _____.

　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

　* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
　　Paper No(s)/Mail Date *2/24/06,9/11/06,10/13/06*.

4) ☐ Interview Summary (PTO-413)
　　Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2.   Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Haas et

al. (Haas), US Pub. No. 2004/0025018.

Regarding claim 1, Haas discloses a method for transmitting and receiving

frames of a MAC (Medium Access Control) protocol layer module that processes data

frames and control frames transferred from a MANET (Mobile Ad Hoc Network) protocol

layer module in a station that receives frames transmitted through a MANET including a

plurality of stations, the method comprising the steps of: (1) distinguishing between

control frames and data frames when analyzing frames transferred from the MANET

protocol layer module; (2) providing the control frames with a higher priority than the

data frames, thereby enabling the control frames to preempt a medium earlier than the

data frames; and (3) transmitting the control frames and the data frames in an order

according to their respective priorities (pages 2-4 [0017-0029] and pages 4-5 [0037-0052]).

Regarding claim 2, Haas discloses the method as claimed in claim 1, wherein the MANET protocol layer module transfers a frame control field, which includes a `type` area indicating MANET data and a `Subtype` area, to the MAC protocol layer module(pages 2-4 [0017-0029] and pages 4-5 [0037-0052]).

Regarding claim 3, Haas discloses the method as claimed in claim 2, wherein the MANET protocol layer module transfers the frame control field to the MAC protocol layer module, in setting discrimination values into the `Subtype` area of the frame control field to distinguish between the control frames and the data frames(pages 2-4 [0017-0029] and pages 4-5 [0037-0052]).

Regarding claim 4, Haas discloses the method as claimed in claim 3, wherein the step (2) comprises a sub-step in which the MAC protocol layer module sets discrimination values into the `Subtype` area of the frame control field to discriminate the priority of the data frames and the control frames (pages 2-4 [0017-0029] and pages 4-5 [0037-0052]).

Regarding claim 5, Haas discloses the method as claimed in claim 4, further comprising changing the discrimination values to increase the priority by one phase when one of medium preemption of the control frames and the data frames have failed(pages 2-4 [0017-0029] and pages 4-5 [0037-0052]).

Regarding claim 6, Haas discloses a MAC (Medium Access Control) protocol layer module for processing data frames and control frames transferred from a MANET

(Mobile Ad Hoc Network) protocol layer module in a station receiving frames transmitted

through a MANET including a plurality of stations, the MAC protocol layer module

comprising: a frame generation section for generating frames to distinguish whether

frames input from the MANET protocol layer module are control frames or data frames;

a priority setting section for providing the control frames with a higher priority as

compared to the data frames in the frames generated from the frame generation

section; and a frame transmission/receipt process section for transmitting and receiving

the control frames and the data frames according to priorities set by the priority setting

section (pages 2-4 [0017-0029] and pages 4-5 [0037-0052]).

Conclusion

3.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joy K. Contee whose telephone number is

571.272.7906. The examiner can normally be reached on Monday through Friday, 5:30

a.m. to 2:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles Appiah can be reached on 571.272.7904. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JC

JOY K. CONTEE
PATENT EXAMINER